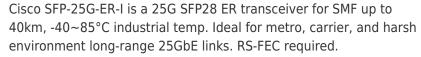


Layer23









SFP-25G-ER-I Description

SFP-25G-ER-I is a Cisco industrial-temperature SFP28 optical transceiver designed for ultra-long-range 25G Ethernet over single-mode fiber. Supporting distances up to 40 kilometers, this module operates reliably from -40°C to 85°C, making it ideal for challenging outdoor or industrial environments. With a standard LC duplex connector and 1310nm wavelength, SFP-25G-ER-I ensures robust 25GbE links for metro aggregation, carrier backbone, or remote campus connectivity. It is fully compliant with IEEE 802.3cc and SFF-8402 standards, requires RS-FEC on the host for error-free 25G transmission, and is backed by a 5-year Cisco warranty. Commonly referred to as Cisco 25G ER SFP28 Industrial, this transceiver provides the performance and reliability demanded by telecom, utility, and critical infrastructure networks.

Product Highlights

Data Rate

Wavelength

Max. Distance

Model comparison

Parameter	SFP-25G-ER-I	SFP-10/25G-LR-I	SFP-10/25G-LR-S
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Form Factor	SFP28	SFP28	SFP28
Data Rate	25 Gbps	10/25 Gbps	10/25 Gbps
Wavelength	1310 nm	1310 nm	1310 nm
Fiber Type	SMF	SMF	SMF
Max. Distance	40 km	10 km	10 km
Power Consumption	1.5 W	1.3 W	1.3 W
Operating Temp.	-40~85°C (IND)	-40~85°C (IND)	0~70°C (COM)
FEC Requirement	RS-FEC required	RS-FEC required (25G)	RS-FEC required (25G)
CPRI Support	No	Yes	No
Connector	LC Duplex	LC Duplex	LC Duplex
Hot-swappable	Yes	Yes	Yes

Specification

Parameter	Value
Product Model	SFP-25G-ER-I
Form Factor	SFP28
Data Rate	25 Gbps
Wavelength	1310 nm
Interface	LC Duplex (PC/UPC)
Cable Type	Single-Mode Fiber (SMF, G.652)
Max. Distance	40 km
Transmit Power (max/min)	+6.0 dBm / -3.0 dBm
Receive Power (max/min)	-4.0 dBm / -21.0 dBm
Power Consumption	1.5 W
Operating Temperature	-40 to 85°C (-40 to 185°F)



Parameter	Value
Storage Temperature	-40 to 85°C (-40 to 185°F)
FEC Requirement	RS-FEC required
Connector	Dual LC/PC
Compliance	IEEE 802.3cc, SFF-8402, SFF-8472, RoHS 6

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